



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

SW

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/036,656	12/21/2001	Christopher P. Zura	23555-P011US	4464

7590 03/18/2004

DAVID M. MUNDT
COOK, ALEX, MCFARRON, MANZO, CUMMINGS & METHLER LTD
200 WEST ADAMS STREET
SUITE 2850
CHICAGO, IL 60606

EXAMINER

SHAPIRO, JEFFERY A

ART UNIT	PAPER NUMBER
----------	--------------

3653

DATE MAILED: 03/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/036,656

Applicant(s)

ZURA ET AL.

Examiner

Jeffrey A. Shapiro

Art Unit

3653

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 January 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- 1) ☐ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Christman et al (US 6,390,151 B1) in view of Chandonnet (US 6,401,009 B1) and further in view of Brown (US 5,771,278). Christman et al discloses the following.

As described in Claim 1;

- a. a fuel dispenser (14 and 38) for pumping fuel in response to dispenser control signals applied thereto;
- b. a pump controller (20) for generating said dispenser control signals, said pump controller having a communications interface adapted to receive transaction signals from said fuel dispenser and to transmit said dispenser control signals from said pump controller to said dispenser (see col. 14, lines 45-67, noting that connection (48) has a two-way arrow indicating signals passing both ways between the fuel dispenser and the pump controller);
- c. an intermediary module coupled to said communications interface and to said dispenser, said intermediary module adapted to intercept said

Art Unit: 3653

transaction signals and said dispenser control signals (note that col. 14, lines 58-63 indicate the existence of signal processing devices such as encoders/decoders, modems, and interface modules, which can be construed as "intermediary modules");

d. a display and control module (30), coupled to said intermediary module; (Note that col. 14, lines 28-34 indicate that the device (30) can be either mounted in a vehicle or mounted on the dispenser itself—at the very least, it would be obvious to one ordinarily skilled in the art to allow a communication device to be either mobile in the vehicle or affixed to the dispenser itself, or both, so as to increase the amount of sales by accommodating those who may not have a mobile device in their vehicle. Note also col. 20, lines 38-50, which indicates that a display device may be mounted directly onto the dispenser, noting that for a display to be mounted to the dispenser, it would be obvious to those ordinarily skilled in the art to also add the necessary display cards and controllers.)

e. a display, coupled to said display and control module, for displaying multimedia content (see col. 20, lines 1-30 and col. 18, lines 18-35, noting that video as well as voice and text are carried and displayed on the displays of Christman et al);

f. wherein said intermediary module transmits at least one transaction signal from said fuel dispenser to said communications interface and to

Art Unit: 3653

said display and control module (see col. 7, lines 66 and 67 and col. 8, line 1) (see also col 7, lines 22-67 and col. 8, lines 1-16);

As described in Claim 2;

g. said intermediary module modifies at least one dispenser control signal received from said communications interface and transmits said modified dispenser control signal to said fuel dispenser (note again, the modem, encoder, decoder, and other circuitry-see also Johnson, Jr. (US 6,470,233 B1, which describes using cryptography electronics in figure 4a, which also might be used by those ordinarily skilled in the art to condition/modify the signals from the communications interface to the dispenser);

As described in Claim 3;

h. said intermediary module modifies at least one transaction signal from said fuel dispenser and transmits said modified transaction signal to said communications interface (see previous discussions regarding cryptography or encoders/decoders);

As described in Claim 4;

i. said display control module generates control signals to control said intermediary device to generate dispenser control signals and apply said dispenser control signals to said fuel dispenser (see prior discussions);

As described in Claim 5;

Art Unit: 3653

- j. a server (42), coupled to said display and control module by a communications link (40)—see also figure 2);

As described in Claim 6;

- k. said communications link to the server is a wireless communications link (see col. 16, lines 8-12);

As described in Claim 7;

- l. said server transmits multimedia content to said display and control module via said communications link (see previous discussions);

As described in Claim 8;

- m. said multimedia content is displayed on said display (see previous discussions, also noting that, at the very least, it would have been obvious to display multimedia content on a display);

The following claims are rejected using Christman (note that both interpretations require the same teachings from both Chandonnet and Brown), with an alternative interpretation, whereby the “vehicle communications device” is the intermediary module.

As described in Claim 10;

- n. an intermediary module (30 or 52) adapted to be coupled to a fuel dispenser,
- o. a dispenser controller (20), and
- p. a display and control module (see col. 20, lines 38-50),

Art Unit: 3653

q. said intermediary module (30) responsive to dispenser control signals transmitted from said dispenser controller (20) to process said control signals in accordance with programming provided by said display and control module and to transmit said processed control signals to said fuel dispenser (note, for example, that the dispenser controller sends control signals to and from the programmable dispensing valve display, but that the signals sent to and from the dispenser by the vehicle communications device affect the dispenser controller and its functions—note also that the intermediary module can also be construed to include the controller (20), and that even the entire dispenser system may be considered an intermediary module with respect to the server (42) and the other remote portions of the system);

As described in Claim 11;

r. said intermediary module is responsive to transaction signals transmitted from said fuel dispenser to process said transaction signals in accordance with programming provided by said display and control module and to transmit said processed control signals to said dispenser controller (see figure 3, noting that “refueling request info”, “commercial transaction” and “operator communications” signals are sent to and from the RF transceiver (54) of the dispenser);

As described in Claim 12;

s. said intermediary module is responsive to control signals from said display and control module to generate dispenser control signals to be applied to said fuel dispenser (see figure 3);

As described in Claim 13;

t. said intermediary module is responsive to control signals from said display and control module to generate transaction signals to be transmitted to said dispenser controller (see figure 3);

Christman et al does not expressly disclose, but Chandonnet discloses the following.

As described in Claim 9;

u. a user interface (260), coupled to said display and control device, for allowing a user to specify that an additive is to be dispensed with fuel dispensed by said dispenser;

Christman et al does not expressly disclose, but Brown discloses the following.

v. *said intermediary module (210) having a data processing component (211) and a signal converting component (213); (See Brown, col. 11, lines 15-26 and figure 4a. Note particularly, col. 11, lines 24-27,*

Art Unit: 3653

which indicate that both components (210) and (211) can be formed as a single circuit.)

Christman et al and Chandonnet are analogous art as they concern vending items in a fuel dispensing environment.

Christman et al and Brown are analogous art because Christman discloses use of a modulator/demodulator in controller (20). See Christman, col. 14, lines 55-63. Brown discloses details of a modem, as is well-known in the art, which has a data processing and signal converting component. See previous citations.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to have provided an interface on the fuel dispensers of Christman et al in order to allow a customer to choose an additive to be dispensed with the fuel desired to be dispensed by the dispenser. It would also have been obvious to provide Christman's system with a dedicated controller (20) which has a modem having both a data processing and signal converting components. See Brown col. 11, lines 15-27. Note that modems, in order to work, require both a data processor and a signal converter, such as an analogue to digital converter.

The suggestion/motivation would have been to provide items to a fuel customer which are relevant to the fuel purchase. See col. 2, lines 32-51 of Chandonnet.

Therefore, it would have been obvious to obtain the invention as described in Claims 1-13 by combining Christman et al, Chandonnet and Brown.

R sponse to Arguments

3. Applicant's arguments filed 1/20/04 have been fully considered but they are not persuasive. Applicant asserts that Christman and Chandonnet do not read on Applicant's claims, because they allegedly mention "an interface between a fuel/additive dispenser and an existing fuel dispenser" which is able to be customized to any protocol required by such a fuel dispensing system. However, Applicant appears to be arguing limitations which are not recited in the Claims. Nowhere is there a mention of limitations regarding protocols used with the interface software, for example. In addition, even if the fact that the interface is an add-on to a present system, the fact remains that the claims, as currently written, and reasonably, broadly construed, are met by the disclosures and teachings of Christman, Chandonnet and Brown. Therefore, Claims 1-13 stand rejected.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey A. Shapiro whose telephone number is (703)308-3423. The examiner can normally be reached on Monday-Friday, 9:00 AM-5:00 PM.

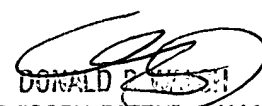
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald P. Walsh can be reached on (703)306-4173. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jeffrey A. Shapiro
Examiner
Art Unit 3653

March 16, 2004



DONALD P. WALSH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3653